

## IN THE CLAIMS AMEND

1. (Currently Amended) ~~Littrow~~A grating with a multiplicity of parallel diffraction structures succeeding one another periodically, which are arranged on a support defining a base area and each incorporate:

a) \_\_\_\_\_-a planar blaze flank inclined towards the base area substantially at the ~~Littrow~~angle at an angle  $\theta$ ; and

b) \_\_\_\_\_ a counter-flank which forms an apex angle  $\alpha$ , ~~wherein the~~ with the blaze flank and the counter-flank form at the apex of a diffraction structure an apex angle with is, wherein the apex angle is less than  $90^\circ$ ;

~~characterised in that~~ wherein the counter-flank (6) comprises at least two substantially plane area sections (7, 8) which:

~~;~~ i) \_\_\_\_\_ bordering one another and are inclined relative to one another by an angle of inclination ( $\exists$ ), ~~extend parallel with the extension direction of the diffraction structure (3), wherein due to the inclination of the at least two area sections (7, 8) relative to one another so that the counter-flank (6) all in all exhibits a concave surface viewed from the light incidence side, and in that~~ wherein the region where the plane area sections border of the counter flank where the two substantially plane area sections (7, 8) meet, is lower than the lowest area of the blaze flank;

ii) \_\_\_\_\_ extend parallel with the extension direction of the diffraction structure; and

iii) \_\_\_\_\_ are arranged such that if parallel light, which has a direction of propagation perpendicular to the blaze flank, impinges onto the grating, the counter-flank is not exposed to parallel light.

2.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 1, ~~characterised in that wherein the plane area sections (7, 8) exhibit a width ratio of 0.5 to 2 measured normal to the extension direction of the diffraction structures (3).~~
3.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 1, ~~characterised in that wherein the angle of inclination ( $\beta$ ) lies in the range of 90° to 150°.~~
4.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 1, ~~characterised in that it consists the grating further comprising of quartz glass.~~
5.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 1, ~~characterised in that it the grating further comprising comprises a coating increasing to increase the reflectivity.~~
6.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 5, ~~characterised in that wherein the coating is an aluminum coating.~~
7.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 1, ~~characterised in that it comprises further comprising a dielectric layer system.~~
8.     (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 7, ~~characterised in that wherein the dielectric layer system comprises layers of  $\text{Al}_2\text{O}_3$  and  $\text{MgF}_2$ .~~

9. (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 7, ~~characterised in that wherein~~ the dielectric layer system comprises layers of  $\text{LaF}_3$  and  $\text{MgF}_2$ .
10. (~~Original~~Currently Amended) ~~Littrow~~The grating according to claim 1, characterised in that the blaze flank (5) comprises, measured normal to the extension direction of the diffraction structures (3), a minimum width of  $g \cos(\theta)$ , where  $g$  designates the grating period of the ~~Littrow~~diffraction grating and  $\theta$  the ~~Littrow~~Littrow angle.
11. (~~Original~~Currently Amended) Use of a ~~Littrow~~the grating according to claim 1 in a diffraction order of the incident light wavelength above or equal to the 15<sup>th</sup> diffraction order.
12. (~~Original~~Currently Amended) Use of a ~~Littrow~~the grating according to claim 1 for the diffraction of UV light (9, 10, 11, 12) with a wavelength that is less than 250 nm.